

Remarks

Claims 1, 28, and 37 were rejected as anticipated by BOYS III 5,293,308. Reconsideration and withdrawal of the rejection are respectfully requested.

The Official Action notes that a pickup resonant circuit is disclosed in Figure 3 and column 7-8 of BOYS III. Applicant respectfully disagrees. As set forth in column 4, line 32 of BOYS III, Figure 3 is a circuit diagram that shows an example of a resonant DC to AC power converter. As described in column 5, line 41 onwards, a typical installation may comprise a primary circuit. Each primary circuit can include a pair of parallel conductors in the form of elongated loop which is usually designated as a track. An alternating current is generated in the track and secondary pick up units can receive power from the field generated by the track. As shown in Figure 3, the input to transformer 3105 is a standard 50 Hertz (usually 60 Hz in the USA) 400 volt 3 phase utility power supply. A rectifier unit BR1 rectifies that incoming power supply and a resonant controller then switches the resultant rectified direct current power supply to provide an alternating current at an appropriate frequency to the track which is clearly referenced on the right hand side of the drawing.

Accordingly, Applicant respectfully submits that the teaching and disclosure of Figure 3 relates to a primary side power supply and not to a pick up unit as claimed in the claims

of the present application. BOYS III does not disclose the pick up unit as claimed and thus these claims avoid the rejection under §102.

Claims 1-3, 28, and 37-38 were rejected as anticipated by RYDVAL 5,892,300. Reconsideration and withdrawal of the rejection are respectfully requested.

The Official Action notes on page 2 of the Official Action that RYDVAL discloses that the control device varies the effect of impedance of the pick up circuit by sensing "the voltage that which can be picked off at the resonance circuit (terminal 3)" (column 3, lines 37-41). The Official Action further notes that RYDVAL Figure 2 (column 3, line 64, column 4, line 7) shows that the control device (11) relies, in part, on the instantaneous value of the resonant circuit voltage.

The applicant respectfully contends that immediately after referring to the voltage being picked off at the resonant circuit, RYDVAL goes on to state "with the result that correction is carried out in such a way that a maximum received voltage level is achieved" (column 3, lines 39-41).

RYDVAL also states that "the device 11 ensures that a resonant frequency of the resonant circuit 1, 2 is changed by switching in one or more of the capacitors (5-7) in such a way that the best possible tuning to a primary circuit, which is coupled in at the coil (1), is achieved." (column 3, lines 34-38).

Therefore, RYDVAL operates to maximize the received voltage level. The sensor senses the voltage level and that is maximized. The applicant respectfully submits that this is entirely distinct from sensing the power requirement of a load.

Therefore, the applicant respectfully submits that claims 1-3, 28 and 37-38 avoid the rejection under §102 because RYDVAL does not disclose all the elements of these claims.

Claims 1-3, 5-12, 16-23, 27-38, and 40-51 were rejected as unpatentable over BOYS I 5,898,579 in view of BOYS III and claims 13-15 and 24-26 were rejected as unpatentable further in view of the admitted prior art (APA) Reconsideration and withdrawal of the rejections are respectfully requested.

As set forth above, Boys III does not disclose tuning or detuning the pick-up resonant circuit. To one of skill in the art, the teaching of the primary controller in BOYS I is to maintain a constant track frequency, not to control a load supplied by a secondary dependent on a sensed power requirement. Therefore, the disclosures of the two documents cannot be read together as suggested in the Official Action, and the claims avoid the rejections under §103.

Claims 24 and 26 were rejected as unpatentable over RYDVAL in view of the APA. Reconsideration and withdrawal of the rejection are respectfully requested.

Applicant submits that RYDVAL does not disclose the features alleged in the Official Action, as set forth above. Further,

RYDVAL teaches matching the frequency of the pick-up to that of the primary - by maximizing the pick-up voltage. This teaches away from tuning based on a sensed load requirement as claimed. Accordingly, these claims avoid the rejection under \$103.

In view of the foregoing remarks, it is believed that the present application is in condition for allowance. Reconsideration and allowance are respectfully requested.

Respectfully submitted,

YOUNG & THOMPSON

/Thomas W. Perkins/
Thomas W. Perkins, Reg. No. 33,027
Customer No. 00466
209 Madison Street, Suite 500
Alexandria, VA 22314
Telephone (703) 521-2297
Telefax (703) 685-0573
(703) 979-4709

TWP/dmw